

TRANSMITTAL FORM

(To be used for all correspondence
after initial filing)

Application Number	10/669,158
Filing Date	September 22, 2003
First Named Inventor	Edward A. Neuwelt
Art Unit	1614
Examiner Name	
Attorney Docket No.	720109.401

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement; Form PTO-1449 (9 Sheets) <input checked="" type="checkbox"/> 92 Cited References <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts under 37 C.F.R. 1.52 or 1.53 <input type="checkbox"/> Response to Missing Parts/Incomplete Application	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Request for Corrected Filing Receipt <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Declaration <input type="checkbox"/> Statement under 37 CFR 3.73(b) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund	<input type="checkbox"/> CD(s), Number of CD(s) _____ <input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Return Receipt Postcard <input type="checkbox"/> Additional Enclosure(s) (please identify below): _____ _____ _____
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Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

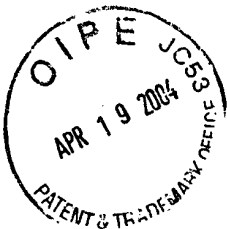
Individual Name	Qing Lin, Ph.D. Reg. No. 53,937	Customer Number 00500
Signature		
Date	April 14, 2004	

CERTIFICATE OF TRANSMISSION/MAILING

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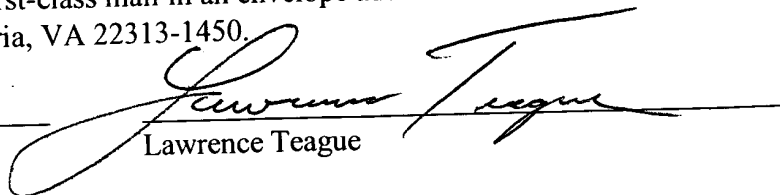
This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
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April 14, 2004
Date


Lawrence Teague

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Edward A. Neuwelt and Leslie Muldoon
Application No. : 10/669,158
Filed : September 22, 2003
For : ADMINISTRATION OF FREE RADICAL SCAVENGERS TO
PREVENT OR TREAT ISCHEMIA-REPERFUSION INJURIES

Art Unit : 1614
Docket No. : 720109.401
Date : April 14, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Form PTO-1449 (copies of the cited references are enclosed). As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware

of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

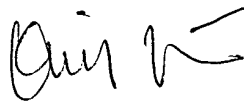
Applicants note that reference HF, on page 8 of the attached forms PTO-1449, is written in Chinese. Accordingly, the Examiner's attention is respectfully directed to the English language abstract on the last page of the reference.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC



Qing Lin, Ph.D.
Registration No. 53,937

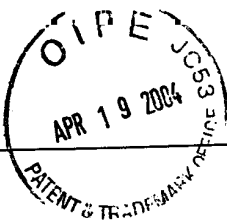
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Enclosures:

Postcard
Transmittal Form
Form PTO-1449 (9 Sheets)
Cited References (92)

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W468129

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
720109.401APPLICATION NO.
10/669,158**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

APPLICANTS

Edward A. Neuwalt et al.

FILING DATE

September 22, 2003

GROUP ART UNIT

1614

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,002,935	03/26/91	Bodor	514	58	
	AB	5,601,835	02/11/97	Sabel et al.	424	424	
	AC	5,648,331	07/15/97	Koudsi et al.	514	12	
	AD	5,869,044	02/09/99	Tomaru et al.	424	74.64	
	AE	5,912,019	06/15/99	Singh	424	608	
	AF	5,968,959	10/19/99	Haikala et al.	514	345	
	AG	6,001,842	12/14/99	Neely	514	263	
	AH	6,086,868	07/11/00	Moldawer et al.	424	85.2	
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AJ					
	AK					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AL	Andersen, L.W. et al., "The role of N-acetylcystein administration on the oxidative response of neutrophils during cardiopulmonary bypass," <i>Perfusion</i> 10: 21-26, 1995.
	AM	Ataka, K. et al., "The Protective Effects of Calcium Antagonist and Free Radical Scavenger Against Myocardial Ischemic/Reperfusion Injury in the Isolated Rat Heart," <i>Kobe J. Med. Sci.</i> 35(5-6): 261-276, December 1989.
	AN	Auer, M. et al., "Effects of Clinically Used Antioxidants in Experimental Pneumococcal Meningitis," <i>The Journal of Infectious Diseases</i> 182: 347-350, July 2000.
	AO	Barbut, D. et al., "Aortic Atheroma Is Related to Outcome but Not Numbers of Emboli During Coronary Bypass," <i>Ann. Thorac. Surg.</i> 64: 454-459, 1997.
	AP	Blakley, B.W. et al., "Strategies for Prevention of Toxicity Caused by Platinum-Based Chemotherapy: Review and Summary of the Annual Meeting of the Blood-Brain Barrier Disruption Program, Gleneden Beach, Oregon, March 10, 2001," <i>The Laryngoscope</i> 112(11): 1997-2001, November 2002.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 720109.401		APPLICATION NO. 10/669,158	
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BA							
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	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION	
						YES	NO
BB							
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	BC	Börjesson, A. et al., "Effects of N-Acetylcysteine on Pulmonary Macrophage Activity after Intestinal Ischemia and Reperfusion in Rats," <i>Digestive Surgery</i> 17: 379-389, 2000.					
	BD	Brunet, J. et al., "Effects of N-Acetylcysteine in the Rat Heart Reperfused After Low-flow Ischemia: evidence for a Direct Scavenging of Hydroxyl Radicals and a Nitric Oxide-Dependent Increase in Coronary Flow," <i>Free Radical Biology & Medicine</i> 19(5): 627-638, 1995.					
	BE	Cakir, O. et al., "Neuroprotective effect of N-acetylcysteine and hypothermia on the spinal cord ischemia-reperfusion injury," <i>Cardiovascular Surgery</i> 11(5): 375-379, October 2003.					
	BF	Cao and Phillis, "The free radical scavenger, α -lipoic acid, protects against cerebral ischemia-reperfusion injury in gerbils," <i>Free Rad. Res.</i> 23(4): 365-370, 1995.					
	BG	Carroll, J.E. et al., "Nuclear factor- κ B activation during cerebral reperfusion: effect of attenuation with N-acetylcysteine treatment," <i>Molecular Brain Research</i> 56: 186-191, 1998.					
	BH	Ceconi, C. et al., "The Role of Glutathione Status in the Protection Against Ischaemic and Reperfusion Damage: Effects of N-Acetyl Cysteine," <i>J. Mol. Cell. Cardiol.</i> 20: 5-13, 1988.					
	BI	Chavez-Cartaya, R. et al., "Free radical scavengers to prevent reperfusion injury following experimental warm liver ischaemia. Is there a real physiological benefit?" <i>Transplant International</i> 12(3): 213-221, 1999.					
	BJ	Christopher, T.A. et al., "Carvedilol, a New Beta-Adrenoreceptor Blocker, Vasodilator and Free-Radical Scavenger, Exerts an Anti-Shock and Endothelial Protective Effect in Rat Splanchnic Ischemia and Reperfusion," <i>The Journal of Pharmacology and Experimental Therapeutics</i> 273(1): 64-71, April 1995.					
	BK	Cosgrove, D.M. et al., "Primary myocardial revascularization. Trends in surgical mortality," <i>The Journal of Thoracic and Cardiovascular Surgery</i> 88(5 pt. 1): 673-684, November 1984.					
	BL	Cuzzocrea, S. et al., "Beneficial effects of n-acetylcysteine on ischaemic brain injury," <i>British Journal of Pharmacology</i> 130: 1219-1226, 2000.					
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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Edward A. Neuwalt et al.		
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U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	CA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO	
	CB					
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
	CC	Cuzzocrea, S. et al., "Effects on <i>n</i> -acetylcysteine in a rat model of ischemia and reperfusion injury," <i>Cardiovascular Research</i> 47: 537-548, 2000.				
	CD	Dahlborg et al., "The Potential for Complete and Durable Response in Nonglial Primary Brain Tumors in Children and Young Adults with Enhanced Chemotherapy Delivery," <i>The Cancer Journal from Scientific American</i> 4(2): 110-124, March/April 1998.				
	CE	Demir, S. et al., "Pentoxifylline and <i>N</i> -acetylcysteine in hepatic ischemia/reperfusion injury," <i>Clinica Chimica Acta</i> 275: 127-135, 1998.				
	CF	DiMari, J. et al., "N-acetyl cysteine ameliorates ischemic renal failure," <i>American Journal of Physiology</i> 272(3 pt. 2): F292-F298, March 1997.				
	CG	Doolittle, N.D. et al., "Delayed Sodium Thiosulfate as an Otoprotectant Against Carboplatin-induced Hearing Loss in Patients with Malignant Brain Tumors," <i>Clinical Cancer Research</i> 7: 493-500, March 2001.				
	CH	Ellis, E.F. et al., "Restoration of cerebrovascular responsiveness to hyperventilation by the oxygen radical scavenger <i>n</i> -acetylcystein following experimental traumatic brain injury," <i>Journal of Neurosurgery</i> 75(5): 774-779, November 1991.				
	CI	Fukahara, K. et al., "Inhaled nitric oxide after lung ischemia reperfusion; effect on hemodynamics and oxygen free radical scavenger system," <i>European Journal of Cardiothoracic Surgery</i> 11:343-349, 1997.				
	CJ	Fukuzawa, K. et al., "N-Acetylcystein Ameliorates Reperfusion Injury After Warm Hepatic Ischemia," <i>Transplantation</i> 59(1): 6-9, January 15, 1995.				
	CK	Grieb, P. et al., "Changes in oxidative stress in the rat brain during post-cardiac arrest reperfusion, and the effect of treatment with the free radical scavenger idebenome," <i>Resuscitation</i> 39: 107-113, 1998.				
	CL	Harrison, P.M. et al., "Improvement by acetylcysteine of hemodynamics and oxygen transport in fluminant hepatic failure," <i>The New England Journal of Medicine</i> 324(26): 1852-1857, June 27, 1991.				
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DA							

FOREIGN PATENT DOCUMENTS					
DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
			YES	NO	
DB					

OTHER PRIOR ART <small>(Including Author, Title, Date, Pertinent Pages, Etc.)</small>	
DC	Hori, K. et al., "Neuroprotection by glial cells through adult T cell leukemia-derived factor/human thioredoxin (ADF/TRX)," <i>Brain Research</i> 652(2): 304-310, August 1994.
DD	Horowitz, J.D., "Thiol-Containing Agents in the Management of Unstable Angina Pectoris and Acute Myocardial Infarction," <i>The American Journal of Medicine</i> 91(3C): 113s-117s, September 30, 1991.
DE	Hur, G.M. et al., "Hepatic Ischemia/Reperfusion in Rats Induces iNOS Gene Transcription by Activation of NF-κB," <i>Biochemical and Biophysical Research Communications</i> 261(3): 917-922, 1999.
DF	Jolliet-Riant and Tillement, "Drug transfer across the blood-brain barrier and improvement of brain delivery," <i>Fundam. Clin. Pharmacol.</i> 13: 16-26, 1999.
DG	Kannan, R. et al., "Transport of Glutathione at Blood-Brain Barrier of the Rat: Inhibition by Glutathione Analogs and Age-Dependence," <i>Journal of Pharmacology and Experimental Therapeutics</i> 263(3): 964-970, December 1992.
DH	Knuckey, N.W. et al., "N-Acetylcysteine Enhances Hippocampal Neuronal Survival After Transient Forebrain Ischemia in Rats," <i>Stroke</i> 26: 305-311, 1995.
DI	Koeppel, T.A. et al., "Impact of N-Acetylcysteine on the Hepatic Microcirculation After Orthotopic Liver Transplantation," <i>Transplantation</i> 61(9): 1397-1402, May 15, 1996.
DJ	Koeppel, T.A. et al., "Improvement of Hepatic Microhemodynamics by N-Acetylcysteine after Warm Ischemia," <i>European Surgical Research</i> 28: 270-277, 1996.
DK	Koksal, C. et al., "Attenuation of Ischemia/Reperfusion Injury by N-Acetylcysteine in a Rat Hind Limb Model," <i>Journal of Surgical Research</i> 111(2): 236-239, May 15, 2003.
DL	Kretzschmar, M. et al., "Reduction of ischemia-reperfusion syndrome after abdominal aortic aneurysmectomy by N-acetylcysteine but not mannitol," <i>Acta Anaesthesiologica Scandinavica</i> 40(6): 657-664, July 1996.

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	EA						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION YES NO	
	EB						
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	EC	Kreuter, J., "Nanoparticulate systems for brain delivery of drugs," <i>Advanced Drug Delivery Reviews</i> 47: 65-81, 2001.					
	ED	Kuluz, J.W. et al., "The Effect of Nitric Oxide Synthase Inhibition on Infarct Volume After Reversible Focal Cerebral Ischemia in Conscious Rats," <i>Stroke</i> 24(12): 2023-2029, December 1993.					
	EE	Lyrer, P. et al., "Levels of low molecular weight scavengers in the rat brain during focal ischemia," <i>Brain Research</i> 567(2): 317-320, 1991.					
	EF	Ma, X-K. et al., "Carvedilol, a New Beta Andrenoreceptor Blocker and Free Radical Scavenger, Attenuates Myocardial Ischemia-Reperfusion Injury in Hypercholesterolemic Rabbits," <i>The Journal of Pharmacology and Experimental Therapeutics</i> 277(1): 128-136, April 1996.					
	EG	Martin, J. et al., "Investigation on the new free radical scavenger polynitroxyl-albumin to prevent ischemia and reperfusion injury after orthotopic heart transplantation in the pig model," <i>European Journal of Cardio-thoracic Surgery</i> 19: 321-325, 2001.					
	EH	Mitsos, S.E. et al., "Canine Myocardial Reperfusion Injury: Protection by a Free Radical Scavenger, N-2-Mercaptopropionyl Glycine," <i>Journal of Cardiovascular Pharmacology</i> 8(5): 978-988, September/October 1986.					
	EI	Muldoon, L.L. et al., "Delayed Administration of Sodium Thiosulfate in Animal Models Reduces Platinum Ototoxicity without Reduction of Antitumor Activity," <i>Clinical Cancer Research</i> 6: 300-315, January 2000.					
	EJ	Muldoon, L.L. et al., "Rescue from Enhanced Alkylator-Induced Cell Death with Low Molecular Weight Sulfur-Containing Chemoprotectants," <i>The Journal of Pharmacology and Experimental Therapeutics</i> 296(3): 797-805, 2001.					
	EK	Nakano, H. et al., "Amelioration of Hepatocellular Integrity and Inhibition of Sinusoidal Oxidative Stress by N-Acetylcysteine Pretreatment in Cold Ischemia-Reperfusion Injury of Rat Liver," <i>European Surgical Research</i> 28: 245-255, 1996.					
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FA						

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				YES	NO
FB					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

FC	Neuwalt, E.A. et al., "Therapeutic Efficacy of Aortic Administration of N-Acetylcysteine as a Chemoprotectant against Bone Marrow Toxicity after Intracarotid Administration of Alkylators, with or without Glutathione Depletion in a Rat Model," <i>Cancer Research</i> 61: 7868-7874, November 1, 2001.
FD	Neuwelt, E.A. et al., "First Evidence of Otoprotection Against Carboplatin-Induced Hearing Loss with a Two-Compartment System in Patients with Central Nervous System Malignancy Using Sodium Thiosulfate," <i>The Journal of Pharmacology and Experimental Therapeutics</i> 286(1): 77-84, 1998.
FE	Neuwelt, E.A. et al., "In Vitro and Animal Studies of Sodium Thiosulfate as a Potential Chemoprotectant against Carboplatin-induced Ototoxicity," <i>Cancer Research</i> 56(4): 706-709, February 15, 1996.
FF	No Author, "N-acetylcysteine," <i>Alternative Medicine Review</i> 5(5): 467-471, 2000.
FG	Olanders, K. et al., "Protective Effects of N-Acetyl-L-Cysteine and Platelet Activating Factor Inhibition Are Not Linked to Intercellular Adhesion Molecule-1 Expression after Intestinal Ischemia and Reperfusion Injury in Rats," <i>Scandinavian Journal of Gastroenterology</i> 38: 618-625, 2003.
FH	Oredsson, S. et al., "Allopurinol - A Free Radical Scavenger - Reduces Reperfusion Injury in Skeletal Muscle," <i>European Journal of Vascular Surgery</i> 5: 47-52, February 1991.
FI	Pardridge, W.M., "Brain Drug Targeting and Gene Technologies," <i>Jpn J. Pharmacol.</i> 87: 97-103, 2001.
FJ	Pugsley, W. et al., "The Impact of Microemboli During Cardiopulmonary Bypass on Neuropsychological Functioning," <i>Stroke</i> 25(7): 1393-1399, July 1994.
FK	Qui, Y. et al., "The Influence of N-Acetylcysteine on Cardiac Function and Rhythm Disorders During Ischemia Reperfusion," <i>Cardioscience</i> 1(1): 65-74, March 1990.
FL	Remsen, L. et al., "The Influence of Anesthetic Choice, Paco ₂ , and Other Factors on Osmotic Blood-Brain Barrier Disruption in Rats with Brain Tumor Xenografts," <i>Anesth. Analg.</i> 88: 559-567, 1999.

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					YES	NO	
	GB						
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	GC	Roach, G.W. et al., "Adverse Cerebral Outcomes After Coronary Bypass Surgery," <i>The New England Journal of Medicine</i> 335(25): 1857-1863, December 19, 1996.					
	GD	Salom, M.G. et al., "Protective effect of N-acetyl-L-cysteine on the renal failure induced by inferior vena cava occlusion," <i>Transplantation</i> 65(10): 1315-1321, May 27, 1998.					
	GE	Sehirli, A.O. et al., "Protective effect of N-acetylcysteine on renal ischemia/reperfusion injury in the rat," <i>Journal of Nephrology</i> 16: 75-80, 2003.					
	GF	Sekhon, B. et al., "N-Acetyl cysteine protects against injury in a rat model of focal cerebral ischemia," <i>Brain Research</i> 971: 1-8, 2003.					
	GG	Sekhon, C.S. et al., "Attenuation of renal ischemia/reperfusion injury by a triple drug combination therapy," <i>Journal of Nephrology</i> 16: 63-74, 2003.					
	GH	Sener, G. et al., "Melatonin and N-acetylcysteine have beneficial effects during hepatic ischemia and reperfusion," <i>Life Sciences</i> 72: 2707-2718, 2003.					
	GI	Shattuck, K.E. et al., "N-Acetylcysteine Protects From Glutathione Depletion in Rats Exposed to Hyperoxia," <i>Journal of Parenteral and Enteral Nutrition</i> 22(4): 228-233, July/August 1998.					
	GJ	Silbergleit, R. et al., "Lack of a neuroprotective effect from N-acetylcysteine after cardiac arrest and resuscitation in a canine model," <i>Resuscitation</i> 40: 181-186, 1999.					
	GK	Šochman, J. et al., "Cardioprotective effects of N-acetylcysteine: the reduction in the extent of infarction and occurrence of reperfusion arrhythmias in the dog," <i>International Journal of Cardiology</i> 28: 191-196, August 1990.					
	GL	Sochman, J., "N-Acetylcysteine in Acute Cardiology: 10Years Later. What Do We Know and What Would We Like to Know?!" <i>Journal of the American College of Cardiology</i> 39(9): 1422-1428, May 1, 2002.					
EXAMINER				DATE CONSIDERED			
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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 720109.401	APPLICATION NO. 10/669,158	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Edward A. Neuwalt et al.		
				FILING DATE September 22, 2003		GROUP ART UNIT 1614
U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HA						
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION YES NO
	HB					
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
	HC	Tada, H. et al., "Effects of Pretreatment with 2-O-Octadecylascorbic Acid, a Novel Free Radical Scavenger, on Reperfusion-Induced Arrhythmias in Isolated Perfused Rat Hearts," <i>Journal of Cardiovascular Pharmacology</i> 16(6): 984-991, December 1990.				
	HD	Tamura, Y. et al., "Reperfusion Injury in Bone: Effects of CV-3611, a Free Radical Scavenger, on Ischemic Revascularized Bone Grafts in Rats," <i>Journal of Reconstructive Microsurgery</i> 8(6): 471-479, November 1992.				
	HE	Tan, D. et al., "Chemical and Physical Properties and Potential Mechanisms: Melatonin as a Broad Spectrum Antioxidant and Free Radical Scavenger," <i>Current Topics in Medicinal Chemistry</i> 2: 181-197, 2002.				
	HF	Tang and Tang, "Protective Effects of SH-Compounds on Ischemia Reperfusion Induced Arrhythmias in the Isolation Rat Heart," <i>Acta Pharmaceutica Sinica</i> 26(2): 91-95, 1991.				
	HG	Tepel, M. et al., "The Antioxidant Acetylcysteine Reduces Cardiovascular Events in Patients With End-Stage Renal Failure. A Randomized, Controlled Trial," <i>Circulation</i> 107: 992-995, February 25, 2003.				
	HH	Thies, J.C. et al., "The efficacy of N-acetylcysteine as a hepatoprotective agent in liver transplantation," <i>Transplant International</i> 11(Suppl. 1): S390-S392, 1998.				
	HI	Tian, H. et al., "Antioxidant N-acetylcysteine and AMPA/KA receptor antagonist DNQX inhibited mixed lineage kinase-3 activation following cerebral ischemia in rat hippocampus," <i>Neuroscience Research</i> 47: 47-53, 2003				
	HJ	Tredger, J.M., "N-Acetylcysteine: Not Simply a Glutathione Precursor," <i>Transplantation</i> 69(5): 703-704, March 15, 2000.				
	HK	Tripathi and Hegde, "Effect of N-acetylcysteine on myocardial infarct size following ischemia and reperfusion in dogs," <i>Indian J. Physiol. Pharmacol.</i> 42(1): 50-56, 1998.				
	HL	Tsuji and Tamai, "Carrier-mediated or specialized transport of drugs across the blood-brain barrier," <i>Advanced Drug Delivery Reviews</i> 36: 277-290, 1999.				
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	IA					
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	IB					
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
	IC	van Jaarsveld, H. et al., "Effect of Normothermic Ischemic Cardiac Arrest and of Reperfusion on the Free Oxygen Radical Scavenger Enzymes and Xanthine Oxidase (a Generator of Superoxide Anions)," <i>Enzyme</i> 39: 8-16, 1988.				
	ID	Vanella, A. et al., "Free Radical Scavenger Depletion in Post-Ischemic Reperfusion Brain Damage," <i>Neurochemical Research</i> 18(12): 1337-1340, July 1993.				
	IE	Walcher, F. et al., "N-Acetylcysteine failed to improve early microcirculatory alterations of the rat liver after transplantation," <i>Transplant International</i> 8: 317-323, 1995.				
	IF	Weinbroum, A.A. et al., "Liver glutathione level influences myocardial reperfusion injury following liver ischemia-reperfusion," <i>Med. Sci. Monit.</i> 7(6): 1137-1144, 2001.				
	IG	Weinbroum, A.A. et al., "Lung preconditioning with N-acetyl-L-cystein prevents reperfusion injury after liver no flow-reflow: a dose-response study," <i>Transplantation</i> 71(2): 300-306, January 27, 2001.				
	IH	Weinbroum, A.A. et al., "N-Acetyl-L-Cysteine for Preventing Lung Reperfusion Injury After Liver Ischemia-Reperfusion," <i>Transplantation</i> 69(5): 853-859, March 15, 2000.				
	II	Xiong, Y. et al., "Effect of N-Acetylcysteine on Mitochondrial Function Following Traumatic Brain Injury in Rats," <i>Journal of Neurotrauma</i> 16(11):1067-1082, November 1999.				
	IJ	Yan and Greene, "Prevention of PC12 Cell Death by N-Acetylcysteine Requires Activation of the Ras Pathway," <i>The Journal of Neuroscience</i> 18(11): 4042-4049, June 1, 1998.				
	IK	Yip, L. et al., "Intravenous administration of oral N-acetylcysteine," <i>Critical Care Medicine</i> 26(1): 40-43, January 1998.				
	IL	Ytrebø, L.M. et al., "N-acetylcysteine increases cerebral perfusion pressure in pigs with fulminant hepatic failure," <i>Crit. Care Med.</i> 29(10): 1989-1995, 2001.				
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